

1 **Listing of the Claims**

2 1. (Previously Presented) A method for recording a live presentation including a predefined
3 content portion that includes a plurality of presentation slides displayed in response to slide triggering
4 events during the live presentation, and a live portion with live audio and/or visual content performed
5 in conjunction with display of said plurality of presentation slides during the live presentation, the
6 method comprising the steps of:

7 (a) generating slide display commands corresponding to said slide triggering
8 events, for controlling display of said plurality of presentation slides during playback of a recorded
9 presentation;

10 (b) automatically embedding the slide display commands into a data stream as the
11 data stream is produced, the data stream comprising data corresponding to the live portion of the
12 presentation; and

13 (c) saving the data stream with embedded slide display commands to a file such
14 that when the file is played, said live portion is reproduced and said plurality of presentation slides
15 are displayed in substantial synchrony with said live portion as it is played, thereby replicating the
16 live presentation.

17 2. (Previously Presented) The method of Claim 1, wherein the step of automatically
18 embedding the slide display commands into the data stream comprises the steps of capturing the live
19 portion as it is performed during the live presentation; and, encoding the live portion into a digital
20 streaming format, thereby producing the data stream.

21 3. (Previously Presented) The method of Claim 2, wherein the step of automatically
22 embedding the slide display commands comprises the step of interleaving the slide display
23 commands into the data stream as the slide display commands are generated.

24 4. (Original) The method of Claim 2, wherein the live presentation is performed using a local
25 computer that generates the slide display commands in response to the slide triggering events; and
26 wherein the live portion of the live presentation is captured and encoded into the data stream using an
27 encoding computer linked in communication with the local computer, further comprising the steps of:

28 (a) communicating the slide display commands from the local computer to the
29 encoding computer; and

30 ///

1 (b) interleaving the slide display commands into the data stream as they are
2 received by the encoding computer.

3 5. (Original) The method of Claim 2, wherein the live visual content is captured as a
4 plurality of video frames, each being encoded into the data stream with a corresponding time stamp;
5 and wherein the slide display commands are interleaved into the data stream such that each slide
6 display command has a relative time stamp based on its location in the data stream.

7 6. (Original) The method of Claim 5, wherein the plurality of video frames comprises a
8 plurality of keyframes and deltaframes, further comprising the step of:

9 (a) adding a plurality of time index values to the data stream;

10 (b) indexing each of said plurality of keyframes to a corresponding time index
11 value based on the time stamp of the keyframe; and

12 (c) indexing each slide display command to a nearest preceding keyframe time
13 index value based on a time stamp of the slide display command.

14 7. (Original) The method of Claim 1, wherein the step generating slide display commands
15 comprises the steps of:

16 (a) capturing the slide triggering events as they occur during the live presentation;
17 and

18 (b) generating slide display commands based on the slide triggering events that are
19 captured.

20 8. (Original) The method of Claim 1, wherein each presentation slide is associated with a
21 slide file that is saved to a predetermined location, and at least one of the slide display commands
22 references the predetermined location of an associated slide file.

23 9. (Previously Presented) A method for reproducing on a viewing computer a presentation
24 that was previously presented live, said viewing computer having a display, said presentation
25 including a predefined content portion with a plurality of presentation slides that were displayed in
26 response to slide triggering events during the presentation when it was presented live, and a live
27 portion comprising live audio and/or visual content performed in conjunction with display of said
28 plurality of presentation slides during the presentation when it was presented live, the method
29 comprising the steps of:

30 ///

1 (a) producing a recording of the presentation when it was presented live by
2 performing the steps of:

3 (i) producing a data stream comprising data corresponding to the live
4 portion of the presentation;

5 (ii) generating slide display commands corresponding to said slide
6 triggering events, each slide display command controlling display of an associated presentation slide
7 when the recording is played;

8 (iii) automatically embedding the slide display commands into the data
9 stream while the data stream is being produced; and

10 (iv) saving the data stream to a data stream file that is accessible by the
11 viewing computer;

12 (b) saving the predefined content portion to at least one presentation slide file that
13 is accessible by the viewing computer;

14 (c) accessing the data stream file with the viewing computer;

15 (d) reproducing the live portion of the presentation on the display of the viewing
16 computer by playing the data stream file;

17 (e) extracting the slide display commands from the data stream as the slide display
18 commands are encountered while playing the data stream file;

19 (f) in response to each slide display command that is extracted in the preceding
20 step, accessing data corresponding to its associated presentation slide with the viewing computer; and

21 (g) reproducing each of the plurality of presentation slides on the display of the
22 viewing computer as data corresponding to that presentation slide is accessed by the viewing
23 computer in the preceding step.

24 10. (Original) The method of Claim 9, wherein the viewing computer accesses the data
25 corresponding to the presentation slides with a browser program.

26 11. (Original) The method of Claim 10, wherein each of said plurality of presentation slides
27 is associated with a corresponding HTML slide file that is saved to a predetermined location on a
28 network accessible by the viewing computer and at least a portion of said slide display commands
29 comprise a link to the predetermined location of an associated HTML slide file on the network, each
30 of said HTML slide files being opened in the browser program in response to its associated slide

1 display command, said browser program interpreting the HTML slide files to reproduce said plurality
2 of presentation slides.

3 12. (Original) The method of Claim 11, wherein the link to each HTML slide files comprises
4 an absolute reference to a location on the network at which the HTML slide file corresponding to the
5 link is stored.

6 13. (Original) The method of Claim 12, wherein each of the absolute references comprises a
7 base portion identifying a base directory on a network resource in or below which the HTML slide
8 files are stored, and a relative portion, identifying a location at which the HTML slide files are stored
9 relative to the base directory, further comprising the steps of:

10 (a) passing the base portion to the browser program to indicate a location of the
11 base directory;

12 (b) removing the base portion from each of the links in said slide display
13 commands so as leave only the relative portion of the link; and

14 (c) using the relative portion of each link to enable the browser program to access
15 the HTML file associated with that link.

16 14. (Original) The method of Claim 10, wherein the browser program includes a display area
17 having a primary frame, and a secondary frame, a media player screen appearing in the secondary
18 frame, said presentation slide files being reproduced in the primary frame, and said live visual content
19 being reproduced in the media player screen.

20 15. (Original) The method of Claim 14, further comprising the steps of:

21 (a) indicating a location at which the data stream file is stored to the viewing
22 computer;

23 (b) directing the data stream to the secondary frame; and

24 (c) playing the data stream in the secondary frame after at least a portion of the
25 data stream file is received, to reproduce the live portion of the presentation.

26 16. (Previously Presented) A system for recording a live presentation including a predefined
27 content portion having a plurality of presentation slides that are displayed in response to slide
28 triggering events during the live presentation, and a live portion with live audio and/or visual content
29 performed in conjunction with display of said plurality of presentation slides during the live
30 presentation, the system comprising:

1 (a) a local computer having a memory in which a plurality of machine instructions
2 are stored, a user interface, and a processor coupled to the memory for executing the machine
3 instructions;

4 (b) a presentation application program comprising a portion of the plurality of
5 machine instructions stored in the memory of the local computer, the presentation application
6 program enabling:

7 (i) a presenter to change slides during the live presentation in response to
8 slide triggering events entered through the user interface; and

9 (ii) slide display commands to be generated in response to the slide
10 triggering events;

11 (c) an audio capture subsystem that produces a digital audio signal corresponding
12 to the live audio content; and

13 (d) an encoding application module comprising a portion of the plurality of
14 machine instructions stored in the memory of the local computer, said encoding application module
15 being used for:

16 (i) encoding the digital audio signal into a data stream having a streaming
17 data format;

18 (ii) automatically embedding the slide display commands into the data
19 stream while the digital audio signal is encoded into the data stream; and

20 (iii) saving the data stream to a data stream file such that when the data
21 stream file is played, said audio content is reproduced, and said plurality of presentation slides are
22 displayed in substantial synchrony with said audio content as it is reproduced, thereby replicating the
23 live presentation.

24 17. (Original) The system of Claim 16, wherein the live portion of the live presentation
25 further comprises live visual content, further including a video capture subsystem that produces a
26 digital video signal corresponding the live visual content, whereby the digital video signal is encoded
27 along with the digital audio signal into the data stream, such that the audio and visual content is
28 reproduced in synchrony when the data stream file is played.

29 18. (Original) The system of Claim 17, wherein the live visual content is captured as a
30 plurality of video frames, each being encoded into the data stream with a corresponding time stamp,

1 and the slide display commands are interleaved into the data stream, such that each slide display
2 command has a relative time stamp based on its location in the data stream.

3 19. (Original) The system of Claim 18, wherein the plurality of video frames comprises a
4 plurality of keyframes and deltaframes, and the encoding module further performs the functions of:

- 5 (a) adding a plurality of time index values to the data stream;
6 (b) indexing each of said plurality of keyframes to a corresponding time index
7 value, based on a timestamp of the keyframe; and
8 (c) indexing each slide display command to a nearest preceding keyframe time
9 index value, based on a time stamp of the slide display command.

10 20. (Previously Presented) A system for recording a live presentation including a predefined
11 content portion having a plurality of presentation slides that are displayed in response to slide
12 triggering events during the live presentation, and a live portion comprising live audio content
13 performed in conjunction with display of said plurality of presentation slides during the live
14 presentation, the system comprising:

- 15 (a) a local computer having a memory in which a plurality of machine instructions
16 are stored, a user interface, and a processor coupled to the memory for executing the machine
17 instructions;
18 (b) an audio capture subsystem that produces a digital audio signal corresponding
19 to the live audio content;
20 (c) an encoding computer having a memory in which a plurality of machine
21 instructions are stored, and a processor coupled to the memory for executing the machine
22 instructions, the encoding computer being linked in communication with the local computer and the
23 audio capture subsystem;

24 ///

25 ///

26 ///

27 ///

28 ///

29 ///

30 ///

1 (d) a portion of the plurality of machine instructions stored in the memory of the
2 encoding computer comprising an encoding module, execution of the encoding module performing
3 the functions of:

4 (i) encoding the digital audio signal into a data stream having a streaming
5 data format; and

6 (ii) saving the data stream to a data stream file; and

7 (e) a presentation application program comprising a portion of the plurality of
8 machine instructions stored in the memory of the local computer, execution of the presentation
9 application program enabling:

10 (i) a presenter to change slides during the live presentation by entering
11 slide triggering events through the user interface;

12 (ii) slide display commands to be generated in response to the slide
13 triggering events; and

14 (iii) communication of the slide display commands to the encoding
15 computer, said slide display commands being automatically embedded into the data stream by the
16 encoding module as the slide display commands are received by the encoding computer and as the
17 digital audio signal is encoded into the data stream, such that when the data stream file is played, said
18 audio content is reproduced and said plurality of presentation slides are displayed in substantial
19 synchrony with said audio content as it is reproduced, thereby replicating the live presentation.

20 21. (Original) The system of Claim 20, wherein the live portion of the live presentation
21 further comprises live visual content, further including a video capture subsystem that produces a
22 digital video signal corresponding to the live visual content, said digital video signal being encoded
23 into the data stream by the encoding module executing on the encoding computer, such that the audio
24 content and visual content are reproduced in synchrony when the data stream file is played.

25 22. (Previously Presented) The system of Claim 21, wherein the live visual content is
26 captured as a plurality of video frames, each being encoded into the data stream with a corresponding
27 time stamp, and wherein the slide display commands are interleaved into the data stream, such that
28 each slide display command has a relative time stamp based on its location in the data stream.

29 ///

30 ///

1 23. (Original) The system of Claim 22, wherein the plurality of video frames comprises a
2 plurality of keyframes and deltaframes, and the encoding module further performs the functions of:

- 3 (a) adding a plurality of time index values to the data stream;
4 (b) indexing each of said plurality of keyframes to a corresponding time index
5 value, based on a time stamp of the keyframe; and
6 (c) indexing each slide display command to a nearest preceding keyframe time
7 index value, based on a time stamp of the slide display command.

8 24. (Previously Presented) A computer-readable medium having computer-executable
9 instructions for recording a live presentation having a predefined content portion that includes a
10 plurality of presentation slides displayed on a computer in response to slide triggering events during
11 the live presentation, and a live portion comprising live audio and/or visual content performed in
12 conjunction with display of said plurality of presentation slides during the live presentation,
13 execution of the computer-executable instructions causing a computer to:

14 (a) generate slide display commands corresponding to said slide triggering events,
15 for controlling display of said plurality of presentation slides during playback of a recorded
16 presentation;

17 (b) automatically embed the slide display commands into a data stream as the data
18 stream is produced, the data stream comprising data corresponding to the live portion of the
19 presentation; and

20 (c) save the data stream with embedded slide display commands to a file while
21 automatically embedding the slide display commands into the data stream, such that when the file is
22 played, said live portion is reproduced and such that said plurality of presentation slides are displayed
23 in substantial synchrony with said live portion, thereby replicating the live presentation.

24 25. (Previously Presented) The computer-readable medium of Claim 24, wherein execution
25 of the computer-executable instructions further cause the live portion to be captured as it is performed
26 during the live presentation and to be encoded into a digital streaming format.

27 26. (Previously Presented) The computer-readable medium of Claim 25, wherein the slide
28 display commands are interleaved into the data stream as the slide display commands are generated.

29 ///

30 ///

1 27. (Previously Presented) The computer-readable medium of Claim 25, wherein the live
2 visual content is captured as a plurality of video frames, each being encoded into the data stream with
3 a corresponding time stamp, and the slide display commands are interleaved into the data stream such
4 that each slide display command has a relative time stamp based on its location in the data stream.

5 28. (Previously Presented) The computer-readable medium of Claim 25, wherein the
6 plurality of video frames comprises a plurality of keyframes and deltaframes, execution of the
7 computer-executable instructions causing a computer to:

- 8 (a) add a plurality of time index values to the data stream;
9 (b) index each of said plurality of keyframes to a corresponding time index value,
10 based on a timestamp of the keyframe; and
11 (c) index each slide display command to a nearest preceding keyframe time index
12 value, based on a time stamp of the slide display command.

13 29. (Previously Presented) The computer-readable medium of Claim 24, wherein:

- 14 (a) the slide triggering events are captured as they occur during the live
15 presentation;
16 (b) the slide display commands are generated based on the slide triggering events
17 that are captured.